

Name _____ Course: Algebra 1
Teacher : _____ Period _____ Date _____

Parallel, Perpendicular, & Intersecting Lines

Section
A

Discussion Task: Pick any 2 pairs of equations from the choices below to fill into number 1 and 2.

$$y = 2x + 1, \quad y = -\frac{1}{2}x + 1, \quad y = 2x + 3, \quad y = -\frac{2}{3}x + 1, \quad y = -\frac{1}{2}x + 3, \quad y = \frac{3}{2}x + 4$$

1. _____ and _____

2. _____ and _____

Section
B

Academic Discourse: Write each pair of equations in section A in a complete sentence using the following sentence starter. **Be as specific as possible in classifying your lines!**

Sentence Starter: The lines _____ and _____ are _____ (parallel, perpendicular, intersecting) because their slopes are ("the same", "opposite reciprocals", "different".)

Model Sentence: The lines $y = -\frac{1}{2}x + 1$ and $y = 2x + 3$ are perpendicular because their slopes are opposite reciprocals.

1.

2.

Section
C

Active Listening Task: During the class discussion, records two lines and the way they are related

Name of Classmate	Lines	How the lines are related.
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1. _____ & _____

2. _____ & _____

Section
D

Check for Understanding: Fill in the blanks to make the sentence true

The lines _____ and _____ are _____ because their slopes are opposite reciprocals.